



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

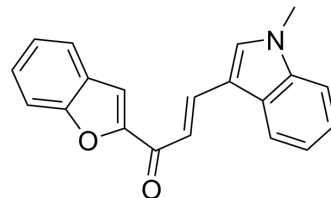
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

TS-24

Cat. No.:	HY-162477
CAS No.:	1563260-97-8
Molecular Formula:	C ₂₀ H ₁₅ NO ₂
Molecular Weight:	301.34
Target:	Cathepsin; Apoptosis
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TS-24 is an inhibitor for cathepsin S, with an IC ₅₀ of 4.3 μM. TS-24 exhibits radiosensitizing activity in wild type breast cancer susceptibility gene 1 (BRCA1) and in TNBC xenograft mice model, through induction of apoptosis ^[1] .	
IC₅₀ & Target	cathepsin S 4.3 μM (IC ₅₀)	
In Vitro	TS-24 (0-1 μM, 24 h) inhibits degradation of breast cancer susceptibility gene 1 (BRCA1) in cells HEK293T, and thus induces radiosensitization ^[1] .	
	TS-24 (0-10 μM, 24 h) inhibits cell migration of MDA-MB-231 ^[1] .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Cell Viability Assay ^[1]	
	Cell Line:	MDA-MB-231
	Concentration:	0-10 μM
	Incubation Time:	24 h
	Result:	Inhibited cell migration.
	Western Blot Analysis ^[1]	
	Cell Line:	MDA-MB-231
Concentration:	0-1 μM	
Incubation Time:	24 h	
Result:	Upregulated levels of BRCA1.	
In Vivo	TS-24 (1 mg/kg, i.p., 3 times a week for 6 weeks) inhibits tumor growth in TNBC xenograft mice model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

Animal Model:	TNBC xenograft mice model ^[1]
Dosage:	1 mg/kg
Administration:	i.p., 3 times a week for 6 weeks
Result:	Inhibited tumor growth

REFERENCES

[1]. Choi E, et al., Radiosensitizing effect of a novel CTSS inhibitor by enhancing BRCA1 protein stability in triple-negative breast cancer cells. Cancer Sci. 2024 Apr 13.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA